

**ABSTRACT OF THE DISCLOSURE**

5 A fiber-optic cable includes a conductive coating formed around an optical fiber. The conductive coating may be in the shape of a band or ring located at a terminal end of the fiber, or may extend along the entire length of the fiber or a portion thereof. For protection purposes, the fiber is covered with a buffer made from a plastic or polymer. The fiber-optic cable may be attached to a plug or receptacle of a connector. Preferably, the cable is  
10 attached to the plug. Under these circumstances, the receptacle would be equipped with a verification circuit for confirming that the plug has been properly installed into the receptacle housing. An electronic device may be used to alert a user as to whether proper installation has occurred. In addition to providing an indication that an optical connection has been made, the  
15 conductive coating may be adapted to carry electrical signals. In this way, the fiber-optic cable would operate as an electrical transmission line and an optical transmission line.

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